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File: DWPI

Jul 31, 1997

DERWENT-ACC-NO: 1997-386365

DERWENT-WEEK: 200050

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TITLE: Incinerator for solid industrial waste - in which the waste is disintegrated into small particles to permit complete combustion and with the special provision of an isolation lock, which prevents flash-back from the furnace

INVENTOR: BUERGER, A; DINEKBORG-LUECKE, W ; HETZELBERGER, R ; KOEHLER, K ; KOLBERG, P ; MOEHLMANN, K ; WALTERBUSH, M ; BERTICH, H ; DINKELBORG-LUECKE, W ; WALTERBUSCH, M ; MOEHLMANN, K H ; DINKELBORGLUECKE, W

PATENT-ASSIGNEE: BASF COATINGS AG (BADI), BASF LACKE & FARBEN AG (BADI)

PRIORITY-DATA: 1996DE-1002399 (January 24, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 19602399 A1	July 31, 1997		006	F23G005/02
US 6125774 A	October 3, 2000		000	F23G005/02
WO 9727429 A1	July 31, 1997	G	024	F23G005/02
EP 876571 A1	November 11, 1998	G	000	F23G005/02
BR 9707468 A	July 20, 1999		000	F23G005/02
EP 876571 B1	October 27, 1999	G	000	F23G005/02
DE 59700615 G	December 2, 1999		000	F23G005/02
ES 2140960 T3	March 1, 2000		000	F23G005/02
JP 2000504098 W	April 4, 2000		018	F23G007/00
DE 19602399 C2	August 24, 2000		000	F23G005/02

DESIGNATED-STATES: BR CA JP US AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE AT BE
CH DE DK ES FR GB IT LI NL SE AT BE CH DE DK ES FR GB IT LI NL SE

CITED-DOCUMENTS: DE 2845763; DE 3615565 ; FR 2702488 ; GB 1464284

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DE 19602399A1	January 24, 1996	1996DE-1002399	
US 6125774A	January 24, 1997	1997WO-EP00322	
US 6125774A	August 26, 1998	1998US-0101657	
US 6125774A		WO 9727429	Based on
WO 9727429A1	January 24, 1997	1997WO-EP00322	
EP 876571A1	January 24, 1997	1997EP-0902214	
EP 876571A1	January 24, 1997	1997WO-EP00322	
EP 876571A1		WO 9727429	Based on
BR 9707468A	January 24, 1997	1997BR-0007468	
BR 9707468A	January 24, 1997	1997WO-EP00322	
BR 9707468A		WO 9727429	Based on
EP 876571B1	January 24, 1997	1997EP-0902214	
EP 876571B1	January 24, 1997	1997WO-EP00322	
EP 876571B1		WO 9727429	Based on
DE 59700615G	January 24, 1997	1997DE-0500615	
DE 59700615G	January 24, 1997	1997EP-0902214	
DE 59700615G	January 24, 1997	1997WO-EP00322	
DE 59700615G		EP 876571	Based on
DE 59700615G		WO 9727429	Based on
ES 2140960T3	January 24, 1997	1997EP-0902214	
ES 2140960T3		EP 876571	Based on
JP2000504098W	January 24, 1997	1997JP-0526553	
JP2000504098W	January 24, 1997	1997WO-EP00322	
JP2000504098W		WO 9727429	Based on
DE 19602399C2	January 24, 1996	1996DE-1002399	

INT-CL (IPC): B01 J 19/14; B02 C 1/00; B02 C 17/00; F23 G 5/02; F23 G 5/033; F23 G 7/00; F23 K 3/00

ABSTRACTED-PUB-NO: DE 19602399A
BASIC-ABSTRACT:

Incinerator, principally for solid industrial waste in which a raw material supply system raises binned waste and then tips it from the top of the tower into a section in which shredders and crushers, in series or in parallel, disintegrate the waste and pass it into a rotating drum with internal ribs to homogenise the composition. From here the material passes into an isolation lock before being fed, batchwise, into the furnace. Inert gas is passed into the system between the homogeniser and the lock. Also claimed is the incineration process.

USE - Complete, and safe, disintegration of solid industrial waste

ADVANTAGE - Complete incineration under safe conditions

ABSTRACTED-PUB-NO: EP 876571B
EQUIVALENT-ABSTRACTS:

Incinerator, principally for solid industrial waste in which a raw material supply system raises binned waste and then tips it from the top of the tower into a section in which shredders and crushers, in series or in parallel, disintegrate the waste and pass it into a rotating drum with internal ribs to homogenise the composition. From here the material passes into an isolation lock before being fed, batchwise, into the furnace. Inert gas is passed into the system between the homogeniser and the lock. Also claimed is the incineration process.

USE - Complete, and safe, disintegration of solid industrial waste

ADVANTAGE - Complete incineration under safe conditions

US 6125774A

Incinerator, principally for solid industrial waste in which a raw material supply system raises binned waste and then tips it from the top of the tower into a section in which shredders and crushers, in series or in parallel, disintegrate the waste and pass it into a rotating drum with internal ribs to homogenise the composition. From here the material passes into an isolation lock before being fed, batchwise, into the furnace. Inert gas is passed into the system between the homogeniser and the lock. Also claimed is the incineration process.

USE - Complete, and safe, disintegration of solid industrial waste

ADVANTAGE - Complete incineration under safe conditions

CHOSEN-DRAWING: Dwg.0/1

DERWENT-CLASS: J09 P41 Q73

CPI-CODES: J09-C;

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Sep 16, 1994

DERWENT-ACC-NO: 1994-296234
DERWENT-WEEK: 199437.
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TITLE: Fuel mfr. from waste - to obtain pasty or viscous fuel useful for heating
boilers or furnaces

INVENTOR: FLAMME, J

PATENT-ASSIGNEE:

ASSIGNEE

CODE

FLAMME J

FLAMI

PRIORITY-DATA: 1993FR-0002766 (March 10, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
FR <u>2702488</u> A1	September 16, 1994		026	C10L005/48

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
FR 2702488A1	March 10, 1993	1993FR-0002766	

INT-CL (IPC): C10L 5/48; F23D 11/16; F23G 5/033; F23G 5/12; F23G 7/00; F23K 1/02

ABSTRACTED-PUB-NO: FR 2702488A

BASIC-ABSTRACT:

A fuel mfg. process involves (a) preparing homogeneous component batches of (esp. industrial) waste; (b) analysing each bath to determine physical and chemical characteristics; (c) determining the quantities of the analysed batches to be used to obtain a pasty or viscous fuel; (d) grinding the solid elements to be incorporated in the fuel; and (e) mixing the determined batch quantities in the proportions required to obtain a pasty or viscous fuel. Also claimed are (i) a process for heating a boiler or furnace, involving combustion of fuel prepd. by the above process; and (ii) a burner for fuel prepd. by the above process.

The burner has a central fuel feed channel and pressurised air feed channels which discharge into the central channel to cause atomisation and injection of the fuel into an incineration unit. Pref. the material quantities and the max. size of the solid elements are determined to obtain a fuel with a calorific value of 10500-38000 kJ/kg. and a viscosity of 30-250 (pref. 150) poise.

USE - For prodn. of fuel useful for cement kilns, lime kilns, incinerators, (esp. central heating) boilers, blast furnaces and power stations.

ADVANTAGE - The process allows disposal of varied wastes by forming into a fuel having a constant energy value per unit wt. of vol. and being combustible without generation of toxic fumes.

CHOSEN-DRAWING: Dwg.1/7

TITLE-TERMS: FUEL MANUFACTURE WASTE OBTAIN PASTE VISCOSITY FUEL USEFUL HEAT BOILER

FURNACE

DERWENT-CLASS: H09 J09 L02 M24 Q73

CPI-CODES: H09-F; J09-C; L02-A04; L02-C; M24-A02;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1994-135000

Non-CPI Secondary Accession Numbers: N1994-233062